

Abstract of the Disclosure

The roll properties of tissue sheets are improved either by imparting cross-machine direction dominant bar-like protrusions to the air side of the tissue by using specially woven transfer fabrics and/or by offsetting recurring surface features of the sheet relative to the surface features of adjacent sheets within the roll, such as by providing a  
5 throughdryer fabric with an offset seam. Both techniques provide the resulting tissue sheets with improved capabilities for providing an improved combination of roll bulk and roll firmness.